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Electron Holography (Springer Series in Optical Sciences) 2nd, enlarged ed. 1999 Edition by Akira Tonomura (Author)

Electron Holography (Springer Series in Optical Sciences ...

Electron holography, a two-step imaging method taking advantage of light and electrons, has been employed for fundamental experiments in physics as well as for high-precision measurements in microscopy. It continues to be advanced in its applications though the speed of the development is not high

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Electron holography , as originally described by Gabor [], is based on the formation of an interference pattern, or hologram, in the transmission electron microscope ().In contrast to most conventional TEM techniques, which only record spatial distributions of image intensity, electron holography allows the phase shift of the high-energy electron wave that has passed through the specimen to ...

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Aharonov-Bohm Effect: The Principle Behind the Interaction of Electrons with Electromagnetic Fields. Pages 44-68. Tonomura, Dr. Akira

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Full use is made of the extremely short wave length of electrons, enabling electron holography to have a great impact on fields ranging from basic science to industrial applications. This book will provide an overview of the present state of electron holography for scien tists and engineers entering the field.

Electron Holography - Springer

Part of the Springer Series in Optical Sciences book series (SSOS, volume 70) Abstract This chapter introduces typical examples for the electron holography techniques that have hitherto been developed.

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Electron holography is an electron microscope imaging technique that permits quantitative measurement of magnetic fields with spatial resolution approaching the nanometer scale. The theoretical background and usual experimental setup for electron holography are first briefly described.

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Electron holography is holography with electron waves. Dennis Gabor invented holography in 1948 when he tried to improve resolution in electron microscope. The first attempts to perform holography with electron waves were made by Haine and Mulvey in 1952; they recorded holograms of zinc oxide crystals with 60 keV electrons, demonstrating reconstructions with approximately 1 nm resolution.

Electron holography - Wikipedia

Springer Science & Business Media, Jul 2, 1999- Juvenile Nonfiction- 162 pages. 0Reviews. Electron holography, a two-step imaging method taking advantage of light and electrons, has been employed...

ELECTRON HOLOGRAPHY.: 2nd edition - Akira Tonomura ...

Prospects for atomic resolution in-line holography for a 3D determination of atomic structures from single projections. It is now established that the 3D structure of homogeneous nanocrystals can be recovered from in-line hologram of single projections. The method builds on a quantitative contrast interpretation of electron exi...

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Electron holography is a powerful technique that allows the phase shift of a high-energy electron wave that has passed through a specimen in the transmission electron microscope to be measured directly.

Electron holography — Arizona State University

Electron holography is employed to study variations of the electrostatic crystal potential in Cu(In,Ga)Se₂ (CIGS) thin-film solar cells at different length scales: Long-range potential variations across the layer structure of the solar cell as well as inhomogeneities within the layers are analyzed by off-axis holography. In-line holography is applied to examine the local potential variation ...

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Electron Holography, 2nd edition /A. Tonomura, Springer, Springer Series in Optical Sciences (1999)

Akira Tonomura - Wikipedia

This is an introduction to electron holography, a newly developed technique for observing and measuring microscopic structures of matter and fields using the wave nature of electrons. It describes principles, experimental details, and observation examples for vortices in superconductors, the...

Electron Holography / Edition 2 by Akira Tonomura ...

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This second edition is an extended version of the first edition of Geometrical Charged-Particle Optics. The updated reference monograph is intended as a guide for researchers and graduate students who are seeking a comprehensive treatment of the design of instruments and beam-guiding systems of charged particles and their propagation in electromagnetic fields.

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